

Scaled data based on original data using  
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-  
State Lighting Products

Test Report Prepared for  
Cooper Lighting Solutions  
(formerly Eaton)

Brand: INVUE

Report Number: P672551

Luminaire Tested: **CCP-SA-2D-740-U-5MQ**

Issue Date: 04/16/2023



**Test Information**

Test Method: LM-79-08  
Report Number: P672551  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 04/16/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: INVUE  
Catalog Number: CCP-SA-2D-740-U-5MQ  
Description: INVUE CLEAR CURVE POLE MOUNT LIGHT SQUARE LUMINAIRE @800mA w/ 5MQ distribution lens  
Light Source: (32) 4000K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

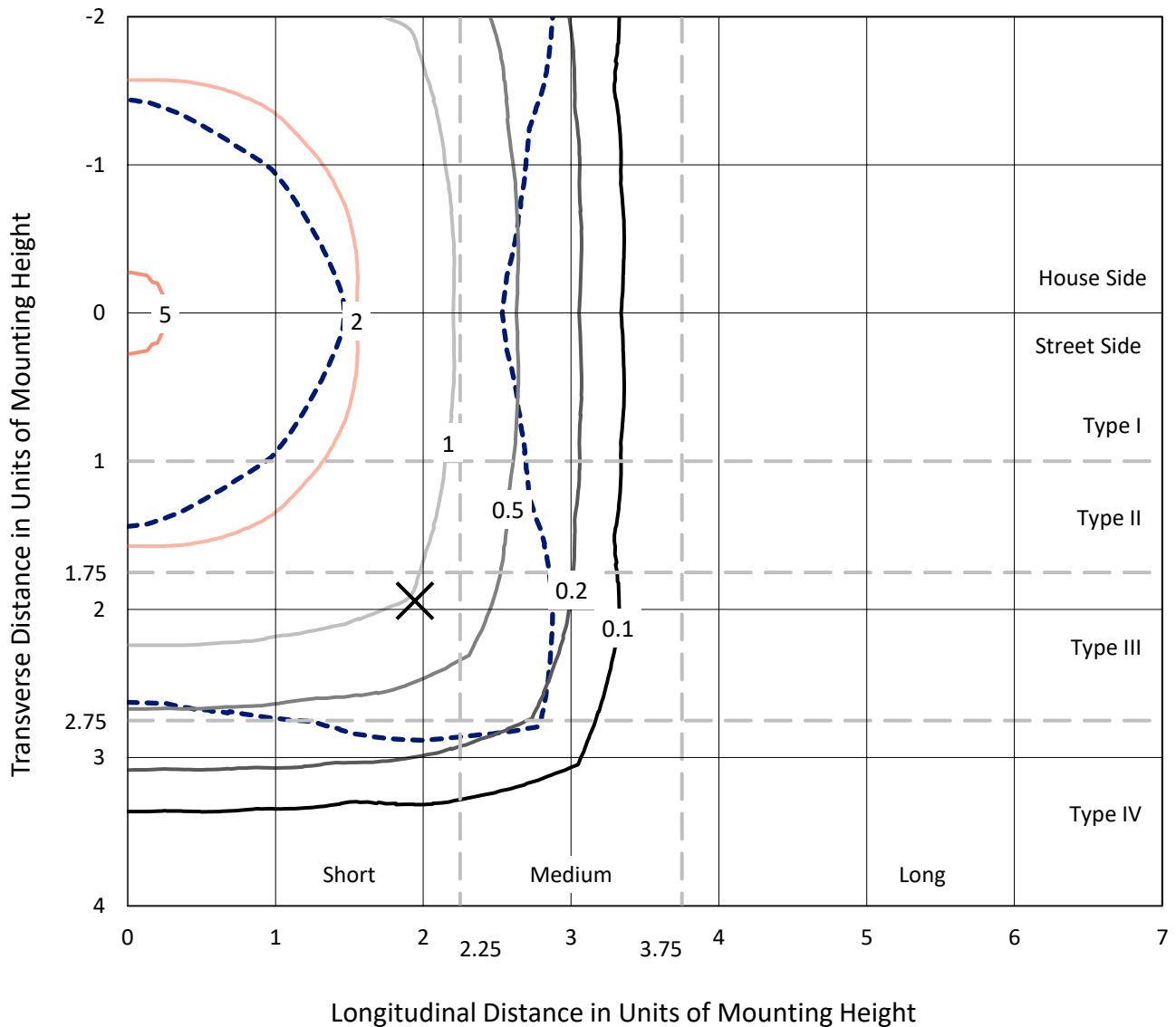
Lumens per Lamp: N/A  
Luminaire Lumens: 11512.4 lumens  
Efficiency: N/A  
Efficacy: 142.5 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B4 - U0 - G2

Input Watts (W): 80.8  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT

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### Iso-Footcandle Lines of Horizontal Illumination

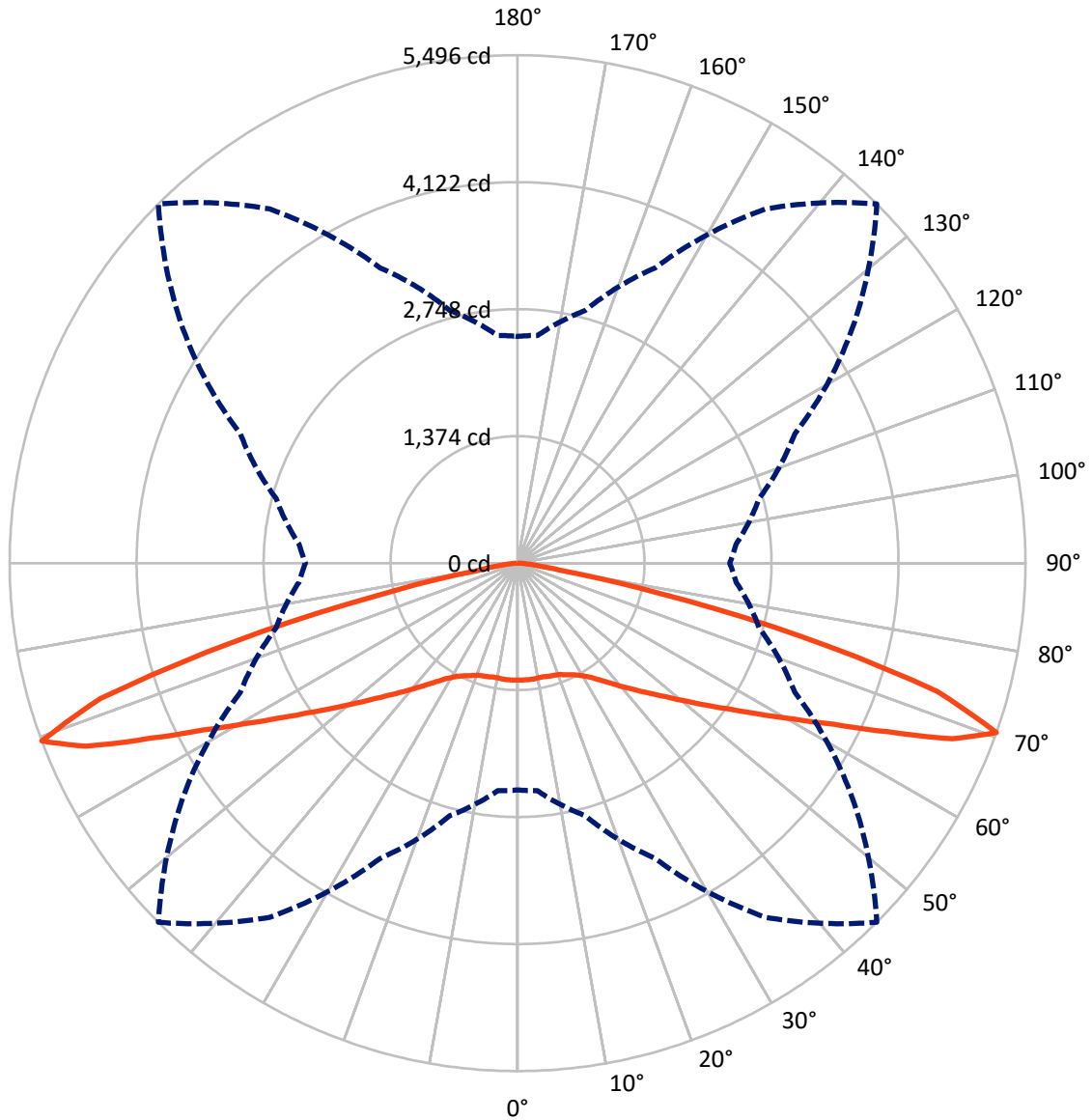
× Max cd  
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 5.6 fc  
 Type V - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral      - - - Horizontal Cone Through 70-Deg Vertical

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**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 5756.2   | 0.0    | 5756.2  |
|                    | % Fixture | 50.0     | 0.0    | 50.0    |
| <b>Street Side</b> | Lumens    | 5756.2   | 0.0    | 5756.2  |
|                    | % Fixture | 50.0     | 0.0    | 50.0    |
| <b>Total</b>       | Lumens    | 11512.4  | 0.0    | 11512.4 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**Coefficient of Utilization**

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 120.4   | 1.0       |
| 10°-20°   | 356.4   | 3.1       |
| 20°-30°   | 608.7   | 5.3       |
| 30°-40°   | 971.3   | 8.4       |
| 40°-50°   | 1567.3  | 13.6      |
| 50°-60°   | 2509.8  | 21.8      |
| 60°-70°   | 3674.1  | 31.9      |
| 70°-80°   | 1615.9  | 14.0      |
| 80°-90°   | 88.6    | 0.8       |
| 90°-100°  | 0.0     | 0.0       |
| 100°-110° | 0.0     | 0.0       |
| 110°-120° | 0.0     | 0.0       |
| 120°-130° | 0.0     | 0.0       |
| 130°-140° | 0.0     | 0.0       |
| 140°-150° | 0.0     | 0.0       |
| 150°-160° | 0.0     | 0.0       |
| 160°-170° | 0.0     | 0.0       |
| 170°-180° | 0.0     | 0.0       |
| 0°-90°    | 11512.4 | 100.0     |
| 0°-180°   | 11512.4 | 100.0     |



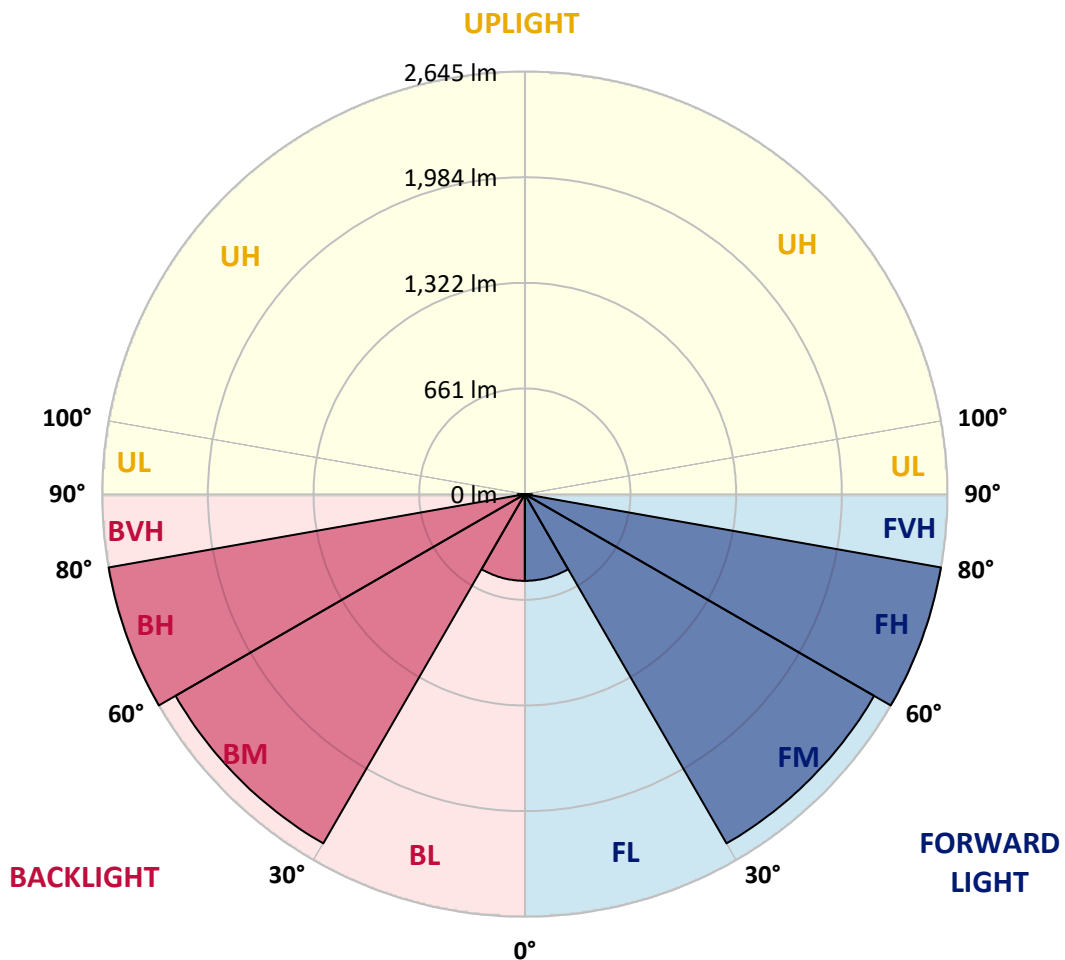
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone           | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|----------------|--------|-----------|-------------------------|------|---------|
|                |        |           | B                       | U    | G       |
| FL (0°-30°)    | 542.7  | 4.7       |                         |      |         |
| FM (30°-60°)   | 2524.2 | 21.9      |                         |      |         |
| FH (60°-80°)   | 2645.0 | 23.0      |                         |      | G2/5000 |
| FVH (80°-90°)  | 44.3   | 0.4       |                         |      | G1/100  |
| BL (0°-30°)    | 542.7  | 4.7       | B2/1000                 |      |         |
| BM (30°-60°)   | 2524.2 | 21.9      | B3/5000                 |      |         |
| BH (60°-80°)   | 2645.0 | 23.0      | B4/5000                 |      | G2/5000 |
| BVH (80°-90°)  | 44.3   | 0.4       |                         |      | G1/100  |
| UL (90°-100°)  | 0.0    | 0.0       |                         | U0/0 |         |
| UH (100°-180°) | 0.0    | 0.0       |                         | U0/0 |         |

**BUG Rating: B4-U0-G2**

Type V Short





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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 15°    | 25°    | 35°    | 45°    | 55°    | 65°    | 75°    | 85°    | 90°    |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 1266.0 | 1266.0 | 1266.0 | 1266.0 | 1266.0 | 1266.0 | 1266.0 | 1266.0 | 1266.0 | 1266.0 | 1266.0 |
| 2.5°  | 1264.4 | 1263.5 | 1265.2 | 1266.0 | 1264.4 | 1265.2 | 1260.3 | 1260.3 | 1262.7 | 1260.3 | 1263.5 |
| 5°    | 1270.1 | 1268.4 | 1270.1 | 1270.1 | 1266.0 | 1266.0 | 1260.3 | 1258.6 | 1260.3 | 1256.2 | 1259.5 |
| 7.5°  | 1270.9 | 1267.6 | 1270.1 | 1269.2 | 1266.0 | 1266.0 | 1257.8 | 1254.6 | 1255.4 | 1251.3 | 1253.8 |
| 10°   | 1262.7 | 1261.1 | 1264.4 | 1262.7 | 1260.3 | 1260.3 | 1253.8 | 1248.9 | 1248.9 | 1244.8 | 1247.2 |
| 12.5° | 1257.8 | 1256.2 | 1260.3 | 1261.1 | 1259.5 | 1260.3 | 1252.1 | 1245.6 | 1243.1 | 1238.3 | 1239.9 |
| 15°   | 1257.8 | 1254.6 | 1261.1 | 1262.7 | 1264.4 | 1270.1 | 1257.8 | 1246.4 | 1241.5 | 1235.0 | 1236.6 |
| 17.5° | 1257.0 | 1255.4 | 1262.7 | 1268.4 | 1270.1 | 1276.6 | 1262.7 | 1250.5 | 1244.8 | 1235.0 | 1236.6 |
| 20°   | 1257.0 | 1256.2 | 1265.2 | 1275.8 | 1280.7 | 1286.4 | 1271.7 | 1260.3 | 1250.5 | 1239.9 | 1239.9 |
| 22.5° | 1261.1 | 1260.3 | 1272.5 | 1288.0 | 1301.9 | 1311.7 | 1294.5 | 1275.8 | 1262.7 | 1248.9 | 1247.2 |
| 25°   | 1278.2 | 1276.6 | 1291.3 | 1310.0 | 1328.8 | 1338.6 | 1321.5 | 1302.7 | 1283.9 | 1268.4 | 1266.8 |
| 27.5° | 1313.3 | 1312.5 | 1327.2 | 1350.0 | 1363.1 | 1370.4 | 1355.7 | 1339.4 | 1320.6 | 1302.7 | 1301.9 |
| 30°   | 1360.6 | 1360.6 | 1379.4 | 1403.0 | 1410.4 | 1416.1 | 1401.4 | 1390.0 | 1370.4 | 1350.8 | 1349.2 |
| 32.5° | 1417.7 | 1421.0 | 1443.0 | 1469.1 | 1474.0 | 1477.3 | 1461.8 | 1454.4 | 1433.2 | 1412.0 | 1408.7 |
| 35°   | 1492.8 | 1493.6 | 1520.5 | 1546.6 | 1553.1 | 1556.4 | 1538.4 | 1531.9 | 1512.3 | 1489.5 | 1484.6 |
| 37.5° | 1588.2 | 1585.7 | 1611.0 | 1640.4 | 1646.9 | 1651.0 | 1636.3 | 1631.4 | 1607.0 | 1584.1 | 1576.8 |
| 40°   | 1695.1 | 1696.7 | 1725.2 | 1753.0 | 1757.0 | 1758.7 | 1751.3 | 1744.0 | 1721.2 | 1695.1 | 1686.1 |
| 42.5° | 1819.0 | 1819.0 | 1852.5 | 1885.1 | 1885.1 | 1877.0 | 1873.7 | 1872.1 | 1850.0 | 1820.7 | 1810.9 |
| 45°   | 1961.0 | 1962.6 | 2004.2 | 2028.7 | 2030.3 | 2008.3 | 2011.5 | 2021.3 | 2000.1 | 1962.6 | 1949.6 |
| 47.5° | 2116.8 | 2119.2 | 2168.2 | 2195.1 | 2190.2 | 2161.6 | 2179.6 | 2184.5 | 2160.0 | 2111.9 | 2094.7 |
| 50°   | 2280.7 | 2288.1 | 2342.7 | 2390.0 | 2383.5 | 2341.9 | 2365.6 | 2367.2 | 2327.2 | 2271.8 | 2248.1 |
| 52.5° | 2457.7 | 2474.9 | 2547.5 | 2598.0 | 2604.6 | 2552.4 | 2572.8 | 2571.1 | 2519.7 | 2443.9 | 2428.4 |
| 55°   | 2677.2 | 2687.0 | 2758.7 | 2830.5 | 2855.0 | 2790.6 | 2813.4 | 2802.0 | 2732.6 | 2646.2 | 2620.1 |
| 57.5° | 2896.6 | 2911.3 | 3003.5 | 3084.2 | 3133.2 | 3078.5 | 3083.4 | 3054.0 | 2966.7 | 2862.3 | 2849.3 |
| 60°   | 3156.8 | 3163.3 | 3265.3 | 3370.5 | 3455.4 | 3422.7 | 3399.9 | 3338.7 | 3235.9 | 3131.5 | 3112.8 |
| 62.5° | 3369.7 | 3382.8 | 3534.5 | 3689.5 | 3833.0 | 3838.7 | 3769.4 | 3678.0 | 3514.1 | 3339.5 | 3302.0 |
| 65°   | 3428.4 | 3449.6 | 3662.5 | 3968.4 | 4267.0 | 4400.0 | 4209.9 | 3930.9 | 3564.7 | 3301.2 | 3244.9 |
| 67.5° | 3155.2 | 3196.0 | 3500.2 | 4008.4 | 4670.8 | 5069.7 | 4560.6 | 3811.0 | 3299.6 | 2992.0 | 2938.2 |
| 70°   | 2453.7 | 2471.6 | 2828.9 | 3526.3 | 4677.3 | 5495.5 | 4419.5 | 3309.3 | 2704.9 | 2374.5 | 2295.4 |
| 72.5° | 1303.5 | 1312.5 | 1634.7 | 2374.5 | 3806.1 | 4747.4 | 3651.9 | 2315.8 | 1592.3 | 1292.1 | 1201.5 |
| 75°   | 420.9  | 432.3  | 562.8  | 972.3  | 2099.6 | 3190.3 | 2153.5 | 963.4  | 549.0  | 442.9  | 419.3  |
| 77.5° | 214.5  | 213.7  | 237.4  | 313.2  | 706.4  | 1563.7 | 747.2  | 337.7  | 237.4  | 212.9  | 206.4  |
| 80°   | 133.8  | 131.3  | 149.3  | 171.3  | 247.2  | 456.8  | 268.4  | 189.2  | 150.1  | 128.9  | 128.1  |
| 82.5° | 75.9   | 75.9   | 100.3  | 110.1  | 139.5  | 188.4  | 156.6  | 129.7  | 102.8  | 76.7   | 74.2   |
| 85°   | 42.4   | 37.5   | 62.8   | 69.3   | 79.9   | 93.0   | 95.4   | 84.0   | 69.3   | 42.4   | 44.0   |
| 87.5° | 15.5   | 17.1   | 29.4   | 27.7   | 31.8   | 22.0   | 39.2   | 44.0   | 39.2   | 20.4   | 17.1   |
| 90°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |

(END OF REPORT)